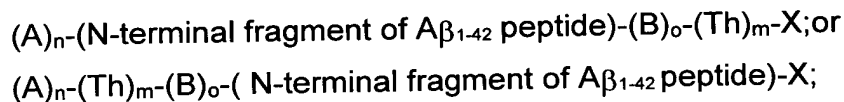


of the target N-terminal fragment of $A\beta_{1-42}$ peptide optionally with a spacer (e.g., Gly-Gly, ϵ -N Lys).

The peptide immunogen of this invention is represented by one of the following formula:



wherein

each A is independently an amino acid;

each B is a linking group selected from the group consisting of an amino acid, gly-gly, (α , ϵ -N)lys, Pro-Pro-Xaa-Pro-Xaa-Pro (SEQ ID NO:77);

Each Th comprise an amino acid sequence that constitutes a helper T cell epitope, or an immune enhancing analog or segment thereof;

(N-terminal fragment of $A\beta_{1-42}$ peptide) is a synthetic peptide B cell target site antigen and is a fragment of about 10 to about 28 amino acid residues wherein each fragment comprises EFRH of the $A\beta_{1-42}$ peptide or an immunologically functional analog thereof;

X is an α -COOH or α -CONH₂ of an amino acid ;

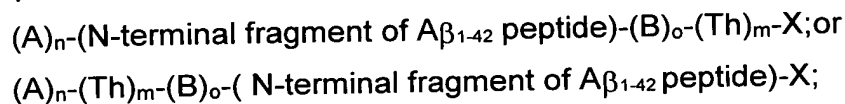
n is from 0 to about 10;

m is from 1 to about 4; and

o is from 0 to about 10.

In the Claims

12. The peptide immunogen represented by one of the following formulae:



wherein

each A is independently an amino acid;